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| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (REV. 7-80) PATENT AND TRADEMARK OFFICE | | ATTY. DOCKET NO. 020131 | SERIAL NO. 10/632,421 |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use several sheets if necessary)</i> | | APPLICANT Andrew Sendonaris | |
| DATE MAILED: June 29, 2004 | | FILING DATE August 1, 2003 | GROUP 2681 |
| U.S. PATENT DOCUMENTS | | | |



| EXAMINER INITIAL | Ref No | DOCUMENT NUMBER | | | | | | | | DATE | NAME | | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE |
|------------------|--------|-----------------|---|---|---|---|---|---|----------|----------------|------|-----|--------|-----------|----------------------------|
| <i>Eh</i> | A1 | 5 | 6 | 8 | 9 | 2 | 4 | 5 | 11/18/97 | Noreen, et al. | | 340 | 825.49 | | |
| <i>Eh</i> | A2 | 5 | 7 | 3 | 7 | 3 | 6 | 2 | 04/07/98 | Hyun, et al. | | 345 | 206 | | |
| | A3 | | | | | | | | | | | | | | |
| | A4 | | | | | | | | | | | | | | |
| | A5 | | | | | | | | | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINE R INITIAL | Ref No | DOCUMENT NUMBER | | | | | | | | DATE | COUNTRY | NAME | | CLASS | SUB CLASS |
|-------------------|--------|-----------------|---|---|---|---|---|---|---|----------|---------|---------------|--|-------|-----------|
| <i>Eh</i> | B1 | 0 | 2 | 0 | 1 | 7 | 5 | 0 | | 01/03/02 | PCT | Motorola Corp | | H04B | 7/00 |
| <i>Eh</i> | B2 | 0 | 3 | 0 | 7 | 9 | 5 | 7 | 0 | 09/25/03 | PCT | Qualcomm Inc | | H04B | 7/005 |
| | B3 | | | | | | | | | | | | | | |
| | B4 | | | | | | | | | | | | | | |
| | B5 | | | | | | | | | | | | | | |
| | B6 | | | | | | | | | | | | | | |
| | B7 | | | | | | | | | | | | | | |

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Page, Etc.)

| | | |
|-----------|----|--|
| <i>Eh</i> | C1 | Li, et al. "An Adaptive Filtering Technique for Pilot Aided Transmission Systems", 40 th Vehicular Technology Conference, May 1990, pps 507-511 |
| <i>Eh</i> | C2 | Oh, et al., "An Adaptive Channel Estimation Scheme for DS-CDMA Systems", 52 nd Vehicular Technology Conference, September 2000, pps. 2839 - 2843 |
| | C3 | |

| EXAMINER | <i>Zhao</i> | DATE CONSIDERED |
|---|-------------|-----------------|
| *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. | | |